

Narrative Summary – June 2021

June 2021 was well above normal, averaging 78.2°F, just 8.3° above normal (69.9°F). The warmest June (2015) averaged 79.0°F, while the coolest (1953) averaged 63.0°F. There were 19 days in June with maximum temperatures $\geq 90^\circ\text{F}$ compared to a June normal of 8 days. There were 10 days with maximum temperatures $\geq 100^\circ\text{F}$ compared to a June normal of 2 days.

The following daily temperature record was established:

Date	Category	New Record	Old Record	Year
2	High Maximum	105	101	2007
3	High Minimum	72	69	2007
22	High Minimum	77	74	1992
26	High Maximum	108	106	2015
27	High Minimum	77	75	1987
28	High Maximum	115	111	2015
29	High Maximum	118	106	2008
30	High Maximum	115	107	2008
30	High Minimum	80	76	2015

Precipitation for June 2021 totaled 0.25 inches, 44% of normal (0.57 inches). The wettest June (1950) received 2.92 inches, while the driest (2003 and earlier years) received only a trace. Total precipitation for 2021 (through June) is 1.76 inches, 44% of normal (3.97 inches).

The average wind speed for June 2021 was 9.6 miles per hour (mph), which was 0.3 mph above normal (9.3 mph). The windiest June (2020) averaged 11.1 mph, while the June with the lightest winds (1982) averaged 7.3 mph. The peak gust for June 2021 was from the northwest at 48 mph on June 13. The record wind gust for June was 72 mph in 1957.

June 2021 was a historical month in regards to hot temperatures. In particular the heat wave from June 26-30, during which the previous all-time high temperature was surpassed four days in a row, peaking when it reached 118°F on June 29. The previous record was 113°F set on multiple dates. Also of note was the state record set by our 100F station on June 29, when it reached 120°F. The previous state record was 118°F. There were numerous other records or near records were set as well at HMS. Below is a listing.

Mean monthly temperature	78.2°F (2 nd highest for June)
Mean daily maximum	93.2°F (2 nd highest for June)
Mean daily minimum	63.3°F (2 nd highest for June)
#Days 110°F or more	4 days (record for any month)
#Days 100°F or more	10 days (record for June)
#Days 90°F or more	19 days (2 nd highest for June)

#Days overnight low 70°F or more	9 days (record for June)
Highest minimum	80°F (2 nd highest for June)
Highest daily mean	99°F (record for any month)
Highest hourly wet bulb	73°F (record for June)

Also impressive was the consecutive hours of extreme heat each day, but June 29 was winner. There were 12 consecutive hours of 100°F or more, 9 consecutive hours of 105°F or more, 7 consecutive hours of 110°F or more, and 3 consecutive hours of 115°F or more.

Of final note is that June 2021 continued the trend of above normal temperatures (21 out of past 22 months ... beginning September 2019), below normal precipitation (17 out of past 19 months beginning December 2019), and above normal wind (16 out of past 18 months ... beginning January 2020).

The monthly climatological data summaries, as well as other information, are available on the Internet.

Address: <http://www.hanford.gov/page.cfm/hms>

Or contact:

HMS staff: 373-2716 hms@rl.gov

Grant Gutierrez: 376-5736 Grant_E_Gutierrez@rl.gov

Note: The data in this summary pertain specifically to the Hanford Meteorology Station (HMS), which is located approximately 25 miles northwest of Richland, WA. No attempt should be made to infer meteorological conditions at other locations from these data.